

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 03-163712

(43)Date of publication of application : 15.07.1991

(51)Int.Cl.

H01B 11/18

H01B 3/44

H01B 13/00

(21)Application number : 01-301274

(71)Applicant : MITSUBISHI CABLE IND LTD

(22)Date of filing : 20.11.1989

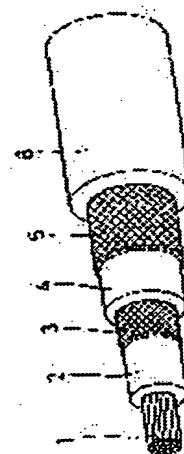
(72)Inventor : ZUSHI TOSHIHIRO  
FUJITA TOSHINORI  
HIRATA TAKAHIKO  
MATSUDA NOBUYOSHI  
SADOMOTO MAKOTO

## 4) COAXIAL CABLE AND MANUFACTURE THEREOF

## (57)Abstract:

**PURPOSE:** To obtain a coaxial cable capable of bearing high temperature and a high-radiation field by constituting an inner protective layer and an outer protective layer by a specific bridging body.

**CONSTITUTION:** A foaming insulating layer 2, a braided outer conductor 3 and an inner protective layer 4 are given on an inner conductor 1 by turns, next, an electron-ray is irradiated from above the inner protective layer 4 for simultaneously bridging two layers of the inner protective layer 4 and the foaming insulating layer 2, next a braided shielding layer 5 and an outer protective layer 6 are given on the inner protective layer 4 and the electron-ray is irradiated from above the outer protective layer 6 for bridging the outer protective layer 6. The outer protective layer 6 consists of a bridged body of a composite, in which an antioxidant such as 4, 4'-butyridene-bis(6-t-butyl-3-methylphenol), 1,1,3-tris(dimethyl-4-hydroxy-5-t-buthylphenol)-buthane is blended with polyolefin resin. This coaxial cable withstands the use in a high-radiation field above 500Mrad, and therefore is suited for a cable for a nuclear power station, and defence and space development.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office